

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1-131. Canceled

132. (Currently Amended) An expandable reaming tool, comprising:

at least two reamer pads operatively coupled to a tool body and ~~adapted~~ configured to be displaced between a retracted position and an expanded position;
at least one spiral blade formed on each of the at least two reamer pads;
a plurality of cutting elements disposed on the at least one spiral blade blades,
wherein selected ones of the plurality of cutting elements disposed on one of the at least two reamer pads are positioned to contact a wellbore at a substantially same axial location as other selected ones of the plurality of cutting elements so as to form a redundant cutting arrangement.

133. (Original) The expandable reaming tool of claim 132, wherein the plurality of cutting elements comprise at least one of polycrystalline diamond inserts, tungsten carbide inserts, and boron nitride inserts.

134. (Currently Amended) The expandable reaming tool of claim 132, further comprising at least one gage protection element disposed on a gage surface of the at least one spiral blade.

135. (Original) The expandable reaming tool of claim 134, wherein the at least one gage protection element comprises at least one of a thermally stabilized polycrystalline insert and a polycrystalline diamond insert.

136. (Currently Amended) The expandable reaming tool of claim 132, further comprising a vibration damping insert disposed on the at least one spiral blade.

137. (Original) The expandable reaming tool of claim 132, wherein the plurality of cutting elements are arranged so as to substantially balance axial forces between the at least two reamer pads.

138. (Original) The expandable reaming tool of claim 132, wherein the plurality of cutting elements are arranged so that a net lateral force acting on the at least two reamer pads is substantially zero.

139. (Original) The expandable reaming tool of claim 132, wherein the at least two reamer pads and the plurality of cutting elements are adapted to backream a formation in a wellbore.

140. (Original) The expandable reaming tool of claim 132, wherein the plurality of cutting elements are arranged to form a tapered cutting structure.

141. (Original) The expandable reaming tool of claim 132, wherein the plurality of cutting elements have backrake angles of greater than 20 degrees.

142. (Original) The expandable reaming tool of claim 132, wherein selected ones of the plurality of cutting elements have different backrake angles than other ones of the plurality of cutting elements.

143. (Original) The expandable reaming tool of claim 132, wherein each of the plurality of cutting elements has a diameter of less than 13.0 mm or greater than 13.0 mm.

144. (Original) The expandable reaming tool of claim 132, wherein the at least two reamer pads and the plurality of cutting elements are adapted to substantially mass balance the expandable reaming tool about an axis of rotation of the reaming tool.

145. (Currently Amended) The expandable reaming tool of claim 132, wherein the at least two reamer pads and the at least one spiral blade are formed from a non-magnetic material.

146. (Currently Amended) The expandable reaming tool of claim 132, wherein the at least two reamer pads and the at least one spiral blade are formed from a matrix material infiltrated with a binder alloy.

147. (Currently Amended) The expandable reaming tool of claim 132, wherein surfaces of the at least one spiral blade proximate the plurality of cutting elements are shaped so that a cutting element exposure is equal to at least half of a diameter of the cutting element.

148. (Currently Amended) The expandable reaming tool of claim 132, wherein a perpendicular distance measured from a surface of the at least two reamer pads to an outermost extent of a gage cutting element disposed on the at least one spiral blade is equal to at least twice a diameter of the gage cutting element.

149. (Currently Amended) The expandable reaming tool of claim 132, wherein a gage surface of the at least one spiral blade comprises a hardfacing material.

150. (Currently Amended) The expandable reaming tool of claim 132, wherein a gage surface of the at least one spiral blade is formed from a diamond impregnated material.

150-200. Canceled